

CURRICULUM VITAE

NAME : Behrouz Asgarian

DATE OF BIRTH: 27/01/1969

NATIONALITY : Iranian

EDUCATION : Ph.D. in Structural Engineering, Tarbiat Modarres University, Tehran, Iran, 2002.
Sabbatical program in the University of California at Berkeley, 03/ 2000 to 02/2001
M.S. in Structural Engineering, Sharif University of Technology, Tehran, Iran 1994.
B.S. in Civil Engineering, K.N. Toosi University of Technology, Tehran, Iran, 1991.

MEMBERSHIPS Iranian Society of civil Engineering
Iranian Society of Earthquake Engineering

LANGUAGES English – Persian

UNIVERSITY POSITIONS

05/2002 – 03/2008 **Assistant Professor**, Civil Engineering Faculty, K.N.Toosi University of Technology, Tehran, Iran

09/2004 – 11/2005 Director of Graduate Studies in Civil Engineering Faculty, K.N.Toosi University of Technology, Tehran, Iran

11/2005 – 07/2007 Educational Deputy of Civil Engineering Faculty, K.N.Toosi University of Technology, Tehran, Iran

07/2007 – 07/2009 Dean of Civil Engineering Faculty, K.N.Toosi University of Technology, Tehran, Iran

03/2008 – 02/2015 **Associate Professor**, Civil Engineering Faculty, K.N.Toosi University of Technology, Tehran, Iran

09/2009 – 05/2011 Head of Earthquake Engineering Group, Civil Engineering Faculty, K.N.Toosi University of Technology, Tehran, Iran

05/2011-12/2011 Visiting Professor, Brunel University, London, UK

02/2015 – Now

Professor, Civil Engineering Faculty, K.N.Toosi University of Technology, Tehran, Iran

COURSES

UNDERGRADUATE

Statics [S02, S03, S04, S05, S06, S07, S08, S09, S10, S12, S13, S15, S16, S17, S18]

Solid Mechanics I [F02, F03, F04, F05, F14, F15, F16, F17, F18]

Solid Mechanics II [F02, S02, F03, S03, F12]

GRADUATE

Plastic Design of Structures [F03, S04, S05, S06]

Dynamics of Structures I [S05, S06, S08]

Structural Stability [F06, F07, F08, F09, F10, F11, S12, F12]

Dynamics of Offshore Structures [F04, F05, F06, F07, F08, F09, F10, S12, F12, F14, F15, F16, F17, F18]

Offshore Structures Design [S05, S06, S07, S08, S09, S10, S11, S12, S13, S15, S16, S17, S18]

Nonlinear Analysis of Structures [S07, S09, S10, S11, S13, S15, S16, S17, F18]

HONORS -AWARDS

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|------|---|
| 1994 | Rank 3 rd among more than 30,000 graduates participating in the nationwide M.Sc. Civil Engineering program entrance exam |
| 2010 | K.N.Toosi University of Technology, Distinguished Researcher Award |
| 2010 | K.N.Toosi University of Technology, Distinguished Teaching Award |

PUBLICATIONS

Journal Papers (International Journals)

- 1- Asgarian B; Aghakouchak A A; Bea R.G. "Inelastic Postbuckling and Cyclic Behavior of Tubular Braces" Journal of Offshore Mechanics and Arctic Engineering, ASME, Vol. 127, August 2005.

- 2- Asgarian B; Aghakouchak A.A.; Bea R.G. "Nonlinear Analysis of Jacket-Type Offshore Platforms Using Fiber Elements" *Journal of Offshore Mechanics and Arctic Engineering*, ASME, Vol. 128, August 2006.
- 3- Honarvar, M.R., Bahari, M.R., Asgarian, B., Alanjari,P. "Cyclic Inelastic Behavior and Analytical Modeling of Pile- Leg Interaction in Jacket Type Offshore Platforms", *Journal of Applied Ocean Research*, Elsevier, Vol. 29 (4), November 2007.
- 4- Asgarian B; Amirhesari N. "A Comparison of Dynamic Nonlinear Behavior of Ordinary and Buckling Restrained Braced Frames Subjected to Strong Ground Motions", *Journal of Tall and Special Building*, Vol. 17, Issue 2, Pages 367-386, June 2008.
- 5- M.R.Honarvar, M.R.Bahari, B.Asgarian "Experimental Modeling of Pile-Leg Interaction in Jacket Type Offshore Platforms, Cyclic Inelastic Behavior", *American Journal of Applied Science*,2007.
- 6- M.R.Honarvar, M.R.Bahari, B.Asgarian "Effect of Grouting in Jacket type Offshore Platforms Pile- Leg Interaction in Nonlinear Range of Deformation", *Journal of Offshore Mechanics and Arctic Engineering*, ASME, Vol. 130, November 2008.
- 7- Asareh, A., Asgarian, B., "Nonlinear behavior of single piles in jacket type offshore platforms using incremental dynamic analysis", *American Journal of Applied Science*, Dec. 2008.
- 8- Asgarian, B., Agheshlouei, H., "Reliability Based Earthquake Design of Jacket Type Offshore Platforms Considering Pile-Soil-Structure Interaction", *American Journal of Applied Science*, Dec. 2008.
- 9- Asgarian, B., Lesani, M. "Soil-Pile-Structure interaction in Pushover Analysis of Jacket type Offshore platforms using Fiber Elements", *Journal of Construction steel research*, Elsevier, Vol. 65, Issue 1, Pages 209-218, January 2009.
- 10-Asgarian, B., RahmanShokrgozar, H., "BRBF Response Modification Factor", *Journal of Construction steel research*, Elsevier, Vol. 65, Issue 2, Pages 290-298, February 2009.
- 11-Alanjari, P., Asgarian, B., Honarvar, M.R., Bahari, M.R." On the energy dissipation of jacket type offshore platforms with different pile-leg", *Journal of Applied Ocean Research*, Elsevier, Vol. 31, Issue 2, Pages 82-89, April 2009.
- 12-Asgarian, B., Amiri, M., Ghafouripour, M. "Damage Detection in jacket Type Offshore platforms Using Modal Strain Energy", *Journal of Structural Engineering and Mechanics*, Techno Press, Vol. 33, No. 3, Pages 325-337, October 2009.
- 13-Asgarian, B., Yahyai, M., Mitaheri, M., Rahmani S, H., Alanjari, P. "Incremental Dynamic Analysis of High-Rise Towers", *Journal of Tall and Special Building*, Vol. 19, Issue 8, Pages 922-934, December 2010.
- 14-Asgarian, B., Ajamy, A. "Seismic performance of Jacket type offshore platforms through Incremental Dynamic Analysis", *Journal of Offshore Mechanics and Arctic Engineering*, ASME, Vol. 132, August 2010.

- 15-Asgarian, B., Sadrinegad, A., A; Alanjari, P. "Seismic performance evaluation of steel moment resisting frames through incremental dynamic analysis", *Journal of Construction steel research*, Elsevier, Vol. 66, Issue 2, Pages 178-190, February 2010.
- 16-Asgarian, B., Jalaeifar, A., "Incremental dynamic analysis of steel braced frames designed based on the first, second and third editions of the Iranian seismic code (standard no. 2800)", *Journal of Tall and Special Building*. Volume 20, Issue 2, March 2011, Pages 190-207.
- 17-Asgarian, B., Moradi, S. "Seismic response of steel braced frames with shape memory alloy braces ", *Journal of Construction steel research*, Elsevier, Vol. 67, Issue 1, Pages 65-74, January 2011.
- 18-Alanjari, P., Asgarian, B., Kia, M., "Nonlinear Joint Flexibility Element for Modeling of Jacket-type Offshore Platforms", *Journal of Applied Ocean Research*, Elsevier 33 (2011) 147_157.
- 19-Asgarian, B., HashemiRezwani, F. "Progressive collapse analysis of concentrically braced frames through EPCA algorithm ", *Journal of Construction steel research*, Elsevier, Vol. 70, Issue 3, Pages 127-136, March 2012.
- 20-NazariMoghaddam, S., Asgarian, B., Nazokkar, K. "Simulation of overall and local buckling behavior of cylindrical tubular members using fuzzy inference system", *Journal of Advances in Engineering Software*, Elsevier, Vol. 45, Issue 1, Pages 349-359, March 2012.
- 21-Hashemi Rezwani,F., Asgarian, B., " Element loss analysis of concentrically braced frames considering structural performance criteria, *Journal of Steel and Composite Structures*, Techno Press, Vol. 12, Issue 3, Pages 231-248, March 2012.
- 22-Asgarian, B., Molavi Nojumi, R., Alanjari,P. "Performance based evaluation of tall buildings using advanced intensity measures (Case study: 30-story steel structure with framed-tube system)", *Journal of Tall and Special Building*, Volume 23, Issue 2, February 2014, Pages: 81–93.
- 23-Asgarian, B., Norouzi, A., Alanjari, P., Mirtaheri,M "Evaluation of Seismic Performance of Moment Resisting Frames Considering Vertical Component of Ground Motion", *Journal of Advances in Structural Engineering*. Multi-Science Publishing Co. Ltd, Vol. 15, No. 8, Pages 1439-1453, March 2012.
- 24-Asgarian, B., Soltani, M., Mohri, F. "Lateral-Torsional Buckling Of Tapered Thin-Walled Beams With Arbitrary Cross Sections", *Journal of Thin Walled Structures*. Elsevier, Vol. 62, Pages 96-108, January 2013.
- 25-Asgarian, B., Khazaei, H., Mirtaheri, M. "Performance Evaluation of Different Types of Steel Moment Resisting Frames Subjected to Strong Ground Motion through Incremental Dynamic Analysis", *International Journal of Steel Structures*. September 2012, Vol. 12, No 3, pages 353-369.
- 26-Jalaeifar, A., Asgarian, B. "A Simple Hybrid Damping Device with Energy Dissipating and Re-centering Characteristics for Special Structures)",

- Journal of Tall and Special Building, Volume 23, Issue 7, May 2014, Pages: 483–499.
- 27-Jalaeefar, A., Asgarian, B. "Experimental Investigation of Mechanical Properties of Nitinol, Structural Steel, and Their Hybrid Component", Journal of Materials In Civil Engineering, ASCE, Oct. 2013, Vol. 25, No. 10, Pages 1498-1505.
- 28-Asgarian,B. , R.Shokrgozar,H., Shahcheraghi, D. and Ghasemzadeh, H. " Effect of soil pile structure interaction on dynamic characteristics of jacket type offshore platforms", Coupled Systems Mechanics, Techno Press, Vol. 1, Issue 4, Pages 381-395, December 2012.
- 29-Asgarian,B. , R.Shokrgozar,H. " A New Bracing System for Improvement of Seismic Performance of Steel Jacket Platforms with Float-Over Deck Systems ", Petroleum Science Journal, Volume 10, Issue 3, Pages 373-384, September 2013.
- 30-Shahverdi, S., Lotfollahi-Yaghin, M.A. and Asgarian, B. "Reduced wavelet component energy-based approach for damage detection of jacket type offshore platform ", Smart Structures and Systems, Techno Press, Vol. 11, Issue 6, 2013.
- 31-Asgarian,B. , Zarrin, M, Boroumand, M., "Nonlinear Dynamic Analysis of Pile Foundation Subjected to Strong Ground Motion Using Fiber Elements", International Journal of Maritime Technology 1 (1), 48-37, 2013.
- 32-Sistani, A., Asgarian, B., Jalaeefar, B., "Reliability Analysis of Braced Frames Subjected to Near Field Ground Motions", Earthquakes and Structures, Techno Press, Vol. 5, No. 6 (2013) 733-751.
- 33-Hashemi Rezwani, F., Asgarian, B. "Effect of Seismic Design Level on Safety against Progressive Collapse of Concentrically Braced Frames", Journal of Steel and Composite Structures", Vol. 16 No. 2, Pages 135-156, 2014, Techno Press.
- 34-Soltani, M., Asgarian, B., Mohri, F. "Buckling and Free Vibration Analyses of Tapered Thin-Walled Beams by the Power Series Method", Journal of Constructional Steel Research, Volume 96, May 2014, Pages 106-126.
- 35-Moradi, S., Alam, S., Asgarian, B. "Incremental Dynamic Analysis of Steel Frames Equipped with NiTi Shape Memory Alloy Braces", Journal of Tall and Special Building, John Wiley, Volume 23, Issue 18, 25 December 2014, Pages: 1406–1425.
- 36-Soltani, M., Asgarian, B., Mohri, F. "Finite Element Method for Stability and Free Vibration Analyses of Non-Prismatic Thin-Walled Beams", Journal of Thin Walled Structures. Elsevier, Vol. 82, Pages 245-261, September 2014, Elsevier.
- 37-Ajamy, A., Zolfaghari, MR, Asgarian, B., Ventura, C.E. "Probabilistic Seismic Analysis of Offshore Platforms Incorporating Uncertainty in Soil-Pile-Structure Interactions", Journal of Constructional Steel Research, Elsevier, Vol. 101, October 2014, Pages 265-279.
- 38-Asgarian, B., Mokarram, V., Alanjari, P. "Local joint flexibility equations for Y-T and K-type tubular joints ", Journal of Ocean System Engineering, Vo. 4, No. 2, Pages 151-167, June 2014, Techno Press.

- 39-Alanjari, P., Asgarian, B., Salari, N. "Elastic tubular joint element for modeling of multi-brace, uni-planar tubular connections", *Journal of Ships and Offshore Structures*, September 2014, Taylor & Francis.
- 40-Tootoonchi, F., Asgarian, B., Danesh, F. "Experimental In-plane Behavior and Retrofitting Method of Mud-Brick Walls", Vol. 13, No. 2, *Transaction A: Civil Engineering, International Journal of Civil Engineering*", IUST, 2015.
- 41-Salari, N., Asgarian, B., "Seismic response of steel braced frame equipped with shape memory alloy-based hybrid device", *Journal of Structural Engineering and Mechanics*, Techno Press, Vol. 53, No. 5 (2015) 1031-1049, 2015.
- 42- Asgarian, B., Alanjari, P., Aghaeidoost, V., "Three-dimensional joint flexibility element for modeling of tubular offshore connections", *Journal of Marine Science and Technology*, Springer, 2015, DOI 10.1007/s00773-015-0317-2.
- 43-Ajamy, A., Zolfaghari, MR, Asgarian, "A simplified method in comparison with comprehensive interaction incremental dynamic analysis to assess seismic performance of jacket-type offshore platforms", *International Journal of Advanced Structural Engineering*, Springer, September 2015.
- 44-Asgarian, B., Aghaeidoost, V., Rahman Shokrgozar, H., "Damage Detection of Jacket Type offshore platforms using Rate of Signal Energy and Wavelet Packet Transform", Accepted for Publication in the *Journal of Marine Engineering*, Elsevier, 2015.
- 45-Asgarian, B., Salari, N., Saadati, B., "Investigation of intelligent passive control device based on shape memory alloy", Accepted for Publication in the *Journal of Structures*, Elsevier, 2015.
- 46-Asgarian, B. ,Salehi Golsefidi, E. ,Rahman Shokrgozar, H., "Probabilistic seismic evaluation of buckling restrained braced frames using DCFD and PSDA methods", *Earthquakes and Structures journal*, Techno Press, 2015. Vol. 10, No. 1(2016),105-123, 2016.
- 47-Asgarian, B., Ordoubadi, B. "Effects of structural uncertainties on seismic performance of steel moment resisting frames", *Journal of Constructional Steel Research*, Elsevier, Vol. 120, January 2016, Pages 132-142.
- 48-Asgarian, B., D. Eslamloo, S., E.Zaghi, A., Mehr, M. "Progressive Collapse Analysis of Power Transmission Towers", Accepted for the publication in *Journal of Constructional Steel Research*, Elsevier, April 2016.
- 49- Farshad Hashemi Rezvani, Ann E. Jeffers, Behrouz Asgarian and Hamid Reza Ronagh, " Effect of column loss location on structural response of a generic steel moment resisting frame",*Steel & Composite Structures journal*, Techno Press, 2017. Vol. 25, No. 2(2017),217-229, 20167
- 50-Soltani,M., Asgarian, B., "Determination of Lateral-Torsional Buckling Load of Simply Supported Prismatic Thin-Walled Beams with Mono-Symmetric Cross-Sections Using the Finite Difference Method", *Amirkabir J. Civil Eng.*, 50(1) (2018) 23-26
- 51-Hossein Gholami, Behrouz Asgarian, Saeed Asil Gharebaghi, " Time-Variant Ultimate Reliability Analysis of Jacket Platforms Considering a

New Probabilistic Corrosion Model for the Persian Gulf”, *Journal of Offshore Mechanics and Arctic Engineering*, ASME, Vol. 140, July 2018

- 52- M Abyani, B Asgarian, M Zarrin, ” Statistical assessment of seismic fragility curves for steel jacket platforms considering global dynamic instability”, *Journal of Ships and Offshore Structures*, Vo;.13, Issue 4, 018, Taylor & Francis
- 53- M Zarrin, B Asgarian, M Abyani, ” Probabilistic Seismic Collapse Analysis of Jacket Offshore Platforms”, *Journal of Offshore Mechanics and Arctic Engineering*, ASME, Vol. 140, June 2018
- 54- Iman Ameli, Behrouz Asgarian, Meng Lin, Sylvester Agbo, Ali Imanpour, Da-Ming Duan, Roger Cheng, Samer Adeeb, ”Determination of CMOD-force curves and R-curves in side-grooved single edge notched tensile (SENT) specimens in welded X42 pipeline steel”, *International Journal of Pressure Vessels and Piping*, Volume 163, June 2018, Pages 68-74
- 55- A Ajamy, B Asgarian, CE Ventura, MR Zolfaghari, ” Seismic fragility analysis of jacket type offshore platforms considering soil-pile-structure interaction”, *Engineering Structures*, Volume 174, 1 November 2018, Pages 198-211
- 56- M Zarrin, B Asgarian, R Foulad, ” A review on factors affecting seismic pile response analysis: a parametric study”, *Journal of Numerical Methods in Civil Engineering*, Volume 2, Issue 2 (12-2017)
- 57- M Abyani, B Asgarian, M Zarrin, ” Probabilistic Seismic Collapse Analysis of Jacket Offshore Platforms”, ”, *Journal of Offshore Mechanics and Arctic Engineering*, ASME, Vol. 140, June 2018.
- 58- B Asgarian, M Zarrin, M Sabzehabaian, ”Effect of foundation behaviour on steel jacket offshore platform failure modes under wave loading, *Ships and Offshore Structures*, Oct 2018.
- 59- Masoumeh Soltani, Behrouz Asgarian, ”Finite Element Formulation for Linear Stability Analysis of Axially Functionally Graded Nonprismatic Timoshenko Beam”, *International Journal of Structural Stability and Dynamics*, August 2018.
- 60- I Ameli, B Asgarian, M Lin, S Agbo, R Cheng, D Duan, S Adeeb, ”Estimation of the CTOD-crack growth curves in SENT specimens using the eXtended finite element method “ , *International Journal of Pressure Vessels and Piping*, Volume 169, January 2019, Pages 16-25.

Journal Papers (in Persian)

- 1- Asgarian B.; Aghakouchak A.A “Modelling of Nonlinear and Postbuckling Behavior of Tubular Structural Members using Fiber Element” *Journal of Faculty of Engineering*, University of Tehran, Vol. 36, No.1, 2002 ,pp 35-46, (in Persian).
- 2- Asgarian, B., Khanalipour, M., Naghavi, A, ”Seismic Retrofit of Concrete Frames Using Steel bracing system” *ASAS Journal*, Vol. 19, 2004, (in Persian).
- 3- Asgarian, B., Jalaeifar, A., ”Reliability Analysis of Steel Braced Frames Designed Based of 1st, 2nd and 3rd edition of Iranian Seismic Code”, *ASAS Journal*, (in Persian).2008.

- 4- Asgarian B; Afzali M. "Probabilistic Analysis of Jacket type Offshore Platforms Subjected to Wave Loading", Darya Journal, No.6, 2007, (in Persian).
- 5- Asgarian, B., Amirhesari, N., "Pushover Analysis of Steel Braced Frames Considering Post Buckling of Bracing Members" Madores Journal, July 2009.(in Persian).
- 6- Zarrin, M., Asgarian,B. "Dispersion Reduction Of Seismic Responses Of Jacket Type Offshore Platforms Subjected To Pulse-Like Near-Fault Ground Motions", Maritime Technology Journal (Darya Journal), (in Persian), 8(16), 33-49, 2013.
- 7- Sistani, A, Asgarian, B., Jalaeefar, A., "Incremental Dynamic Analysis of Concentrically Braced Frames Subjected to Near Field Ground Motions", Accepted for the publication in the Madores Journal,(in Persian).

Conference Papers

- 1- Aghakouchak, A.A., Asgarian, B. "Inelastic Analysis of Jacket Type Offshore Structures Using Fiber Elements" Proceedings of OMAE02, 21st", International Conference on Offshore Mechanics and Arctic Engineering, June 23-28, 1996, OSLO, NORWAY.
- 2- Asgarian, B., Aghakouchak, A.A. "Nonlinear Dynamic Analysis of Jacket Type Offshore Structures Subjected to Earthquake using Fiber Elements", 13th World Conference on Earthquake Engineering, Vancouver, B.C., Canada, August 1-6, 2004, Paper No. 1726.
- 3- Asgarian, B., Mohebbinejad, A., Soltani, R.H. "Simplified Method to Assess Dynamic Response of Jacket Type Offshore Platforms Subjected to Wave Loading" , Proceedings of OMAE04, 23rd International Conference on Offshore Mechanics and Arctic Engineering, June 20-25, 2004, Vancouver, British Columbia, Canada.
- 4- Asgarian, B., Haghshenas, S.A., Soltani, R.H., "Jacket Type Offshore Structure Pile-Soil Interaction Modeling Using Fiber Elements", Proceedings of OMAE05, 24th International Conference on Offshore Mechanics and Arctic Engineering, June 12-17, 2005, Halkidiki, Greece.
- 5- Asgarian, B., Ajamy, A., "Nonlinear Dynamic Analysis of Jacket Type Offshore Platforms, Using Incremental Dynamic Analysis", 7th International Symposium on Marine Engineering, October 24-28, 2005,, Tokyo, Japan.
- 6- Asgarian, B., Amirhesari, N. "A Comparison on pushover results of OBF and BRBF", Second Iranian Civil Engineering Congress, Iranian University of Science and Technology, Tehran, Iran, 2005, (In Persian).
- 7- Asgarian, B., Naghavi, A. "Assessment of Concrete Building designed based of first revision of Iranian Earthquake Code using Nonlinear Static Analysis" Second Iranian Civil Engineering Congress, Iranian University of Science and Technology, Tehran, Iran, 2005 ,(In Persian).
- 8- Asgarian, B., Adabi, G. "Assessment of Steel Moment Resisting Frames designed based of first revision of Iranian Earthquake Code using Nonlinear Static Analysis", Second Iranian Civil Engineering Congress,

- Iranian University of Science and Technology, Tehran, Iran, 2005 ,(In Persian).
- 9- Asgarian, B., Naghavi, A. "Assessment of Concrete Building designed based of first revision of Iranian Earthquake Code using Nonlinear Dynamic Analysis", Second International Conference on Concrete and Development, BHRC, Tehran, Iran, 2005 ,(In Persian).
 - 10-Asgarian,B., Ajamy,A., "Nonlinear Dynamic Behavior of Offshore Structures, Using Incremental Dynamic Analysis", 8th U.S. National Conference on Earthquake Engineering, April, 2006, San Francisco, USA.
 - 11-Asgarian,B., Boroumand,M., Soltani, R.H., "Nonlinear Dynamic Analysis of Pile Foundation Subjected to Strong Ground Motion Embedded in Sand using Fiber Elements", Proceedings of OMAE06, 25th International Conference on Offshore Mechanics and Arctic Engineering, June 4-9, 2006, Hamburg, Germany.
 - 12-Asgarian,B., Lesani,M., " Effect of Pile Soil Interaction on Push-over Analysis of Jacket Tpe Offshore Platforms", Proceedings of OMAE06, 25th International Conference on Offshore Mechanics and Arctic Engineering, June 4-9, 2006, Hamburg, Germany.
 - 13-Asgarian,B., Amiri,M.M., "Effect of Structural Member Uncertainties in the Jacket type Offshore Platform Assessments", Proceedings of OMAE06, 25th International Conference on Offshore Mechanics and Arctic Engineering, June 4-9, 2006, Hamburg, Germany.
 - 14-Asgarian,B., Alipour,A., "Postbuckling and Cyclic Behavior of bracing Members using Fiber Elements", First European Conference on Earthquake Engineering and Seismology, Geneva, Switzerland, 3-8 September 2006.
 - 15-Asgarian,B., Mohammadi,R., "Effect of load pattern on push over results of jacket type offshore platforms in Persian Gulf", 7th international conference in Civil Engineering, May, 2006, TarbiatModares University, Tehran, Iran. (In Persian)
 - 16-Asgarian,B., Amirhesari,N., "A Comparison on Hysteresys behavior of Buckling Restrained Braced Frames and Ordinary Braced Frames", 7th international conference in Civil Engineering, May, 2006, TarbiatModares University, Tehran, Iran. (In Persian)
 - 17-Asgatrian,B., Faridalam, M., " Hysteresis Behavior of Links beams in Eccentric Braced Frames", 7th international conference in Civil Engineering, May, 2006, Tarbiat Modares University, Tehran, Iran., (In Persian)
 - 18-Asgarian,B., Khanalipour,M., Naghavi,A., "Concrete Building Retrofitting against Lateral Loads using Steel Bracing", National Conference of Seismic Retrofitting, Tehran, Iran, may, 2006. (In Persian)
 - 19-Asgarian,A., Pirmoz,A., SaediDaryan, A., "Nonlinear behavior of castellated beams subjected to Moment gradient loading", International Conference on Seismology and Earthquake Engineering, SEE5, May,2007, Tehran, Iran.

- 20-Raziei,A., Asgarian,B., “Effect of Soil Pile Structure Interaction on Nonlinear Dynamic Analysis of Jacket Type Offshore Platforms subjected to Earthquake”, International Conference on Seismology and Earthquake Engineering, SEE5, May,2007, Tehran, Iran.
- 21-RoshandelTavana, M.A., Asgarian, B., “ Nonlinear Seismic Soil-Pile Structure Interaction Analysis of Jacket Type Offshore Platforms Using Fiber elements”, International Conference on Seismology and Earthquake Engineering, SEE5, May, 2007, Tehran, Iran.
- 22-Asgarian,B., Raziei, A., “Comparison of Incremental Dynamic and Pushover analysis of Jacket Type Offshore Platforms” OMAE2007-29469, Proceedings of OMAE07, 26th International Conference on Offshore Mechanics and Arctic Engineering, June 10-15, 2007, San Diego, USA
- 23-Asgarian,B., RoshandelTavana, M.A., Soltani, R.H., “Bedrock Depth Effect Investigation in Seismic Response of Offshore Platforms Considering Soil-Pile- Structure Interaction”, OMAE2007-29470, Proceedings of OMAE07, 26th International Conference on Offshore Mechanics and Arctic Engineering, June 10-15, 2007, San Diego, USA.
- 24-Asgarian, B., RahmanShokrgozar, H., “Evaluation of buckling-Restrained Braced Frames Overstrength Factor”, International Conference on Steel and Composite Structures, July, 2007, Manchester, UK.
- 25-Asgarian, B., rahmanShokrgozar, A., ShakeriTalarposhti, A., “Seismic performance Evaluation of Jacket Type Offshore Platforms Through Incremental Dynamic Analysis Considering Soil-Pile-Structure Interaction”, 2008 Seismic Engineering Conference, July 2008, Italy.
- 26-Asgarian, B., Asareh,M.A., Alanjari, P., “Nonlinear Behavior of Single Piles in Jacket Type Offshore Platforms Using Incremental Dynamic Analysis”, Proceedings of OMAE08, 27th International Conference on Offshore Mechanics and Arctic Engineering, June 15-20, 2008, Estoril, Portugal.
- 27-Roshandel, A., Asgarian,B., , “A Comparison between Modal Push-over and Nonlinear Dynamic Response of Jacket Type Offshore Platforms subjected to strong ground motions”, OMAE2008-57588, Proceedings of OMAE08, 27th International Conference on Offshore Mechanics and Arctic Engineering, June 15-20, 2008, Estoril, Portugal.
- 28-Asgarian, B., Fiouz, A., ShakeriTalarposhti, A., “Incremental Dynamic Analysis Considering Pile Soil Structure Interaction For The Jacket Type Offshore Platforms”, OMAE2008-57273, Proceedings of OMAE08, 27th International Conference on Offshore Mechanics and Arctic Engineering, June 15-20, 2008, Estoril, Portugal.
- 29-Asgarian, B., Aghakouchak, A.A., Alanjari,P. and Assareh, M.A.” Incremental Dynamic Analysis of Jacket Type Offshore Platforms Considering Soil-Pile Interaction”, The 14th World Conference on Earthquake Engineering, October 12-17, 2008, Beijing, China.
- 30-Asgarian, B., RahmanShokrgozar, H.,”Effect of Design Loads in Buckling Restrained Braced Frames Performance”, The 14th World Conference on Earthquake Engineering, October 12-17, 2008, Beijing, China

- 31-Asgarian, B., Fiouz, A.R., ShakeriTalarposhti, A." Effect of Soil-Pile-Structure Interaction on Nonlinear Response of Jacket Type Offshore Platforms through Incremental dynamic Analysis", The 14th World Conference on Earthquake Engineering, October 12-17, 2008, Beijing, China.
- 32-Asgarian,B., Sadrinejad,A, Alanjari,P., "Seismic Response of moment Resisting Frames Through Incremental Dynamic Analysis", COMPDYN2009, Greece.
- 33-Asgarian,B., Soltani, M., "Stability Analysis of Non-Prismatic Columns", COMPDYN2009, Greece.
- 34-Asgarian,B., Soltani, M., "Vibration and Stability Analysis of Non-Prismatic Timoshenko Beams on Elastic Foundation", COMPDYN2009, Greece.
- 35-Asgarian,B., Khazaee,H., Mirtaheri, M., "Incremental Dynamic Analysis of Steel Moment Resisting Frames Subject to Near Fault Ground Motions", 14th European Conference in Earthquake Engineering, Macedonia, 2010.
- 36-Asgarian,B., Hashemi Reswani, F., "Determination of Progressive Collapse-Impact Factor of Concentric Braced Frames", 14th European Conference in Earthquake Engineering, Macedonia, 2010.
- 37-Asgarian,B., Moradi, S., Shokrgozar, HR, , "Comparative Seismic Response of Steel Braced Frames with Shape Memory Alloy Braces and Buckling Restrained Braces", 14th European Conference in Earthquake Engineering, Macedonia, 2010.
- 38-Jafari, A., Asgarian, B., Daghigh, M., "Effect of Foundation Modeling On Extreme Response of Offshore Jack-Up Unit", Proceedings of OMAE10, 29th International Conference on Offshore Mechanics and Arctic Engineering, June 2010, Shanghai, China.
- 39-Hashemi Reswani, F., Asgarian, B., "Progressive Collapse Analysis of Concentric Braced Frames Designed According to Different Editions of Iranian Seismic Code", 6th International Conference on Seismology and Earthquake Engineering, SEE6, May,2010, Tehran, Iran.
- 40-Asgarian, B., Jamalian, A.R., "Response Modification Factor for Steel Braced Frames equipped with Hybrid Devices" , 6th International Conference on Seismology and Earthquake Engineering, SEE6, May,2010, Tehran, Iran.
- 41-Asgarian, B., Molavi,R., Rahmani,H., Alanjari, P., " Effective Intensity Measure for a sample Tall Structure" , 6th International Conference on Seismology and Earthquake Engineering, SEE6, May,2010, Tehran, Iran.
- 42-Hashemi Reswani, F., Asgarian, B., "Influence of different seismic load combination on structural safety against progressive collapse of concentric braced frames", COMPDYN2011, Greece.
- 43-Daghigh, M., Saeed Tehrani, S., Asgarian, B., Kiaee, F., "Nonlinear Dynamic Analysis of Jackup Platforms considering Soil Structure Interaction", The 2012 World Conference on Advances in Structural Engineering and Mechanics, ASEM12, 2012, Seoul, South Korea.
- 44-Asgarian, B., Shokrgozar,HR, Shahcheraghi, ghasemzadeh, H., "Effect of Pile- Soil- Structure Interaction on Dynamic Characteristic of Sample Jacket Type Offshore Platform by experimental and Numerical Investigation", The

- 2012 World Conference on Advances in Structural Engineering and Mechanics, ASEM12, 2012, Seoul, South Korea.
- 45-Asgarian, B., Shokrgozar,HR, "Seismic Performance Evaluation of Steel JacketPlatform with Float over Deck Systems", 15th World Conference on Earthquake Engineering, 15WCEE, Lisbon, Portugal.
- 46-Asgarian, B., Jalaefar, A., "Seismic Assessment of Innovative Hybrid Bracing System Equipped with Shape Memory Alloy", 15th World Conference on Earthquake Engineering, 15WCEE, Lisbon, Portugal.
- 47-Soltani, M., Asgarian, B., Mohri, F., "Finite element method for stability analysis of tapered thin-walled beams under lateral loads", The 2013 World Conference on Advances in Structural Engineering and Mechanics, ASEM13, 2013, Jeju, South Korea.
- 48-Soltani, M., Asgarian, B., Mohri, F., "Finite element method for stability and vibration analyses of thin-walled beams with arbitrary cross-section", The 2013 World Conference on Advances in Structural Engineering and Mechanics, ASEM13, 2013, Jeju, South Korea.
- 49-Asgarian,B., Jalaefar,A. "Hybrid Devices to Reduce Residual Displacement of Structural Systems Subjected to Strong Ground Motion", PEER 2013/26 - Urban Earthquake Engineering, Proceedings of the U.S.-Iran Seismic Workshop, December 18-20, 2012, Tehran, Iran.
- 50-Asgarian,B., Sadrnejad, S.A., Khazaee, H., " Effect of Stiffeners in Flexibility of Steel Joints", 8th international conference in civil engineering, Shiraz, Iran, May 2008.
- 51-Asgarian,B., Kashefi, K., Alanjari, P., "Capacity and Demand Analysis of Jacket Type Offshore Platforms using Incremental Dynamic Analysis", 8th international conference in civil engineering, Shiraz, Iran, May 2008.
- 52-SaeedTehrani, S., Asgarian,B., Daghigh, M., Kiaee, F., "Nonlinear Dynamic Analysis of Jackup Platforms considering Soil Spud Can Interaction", International Conference on Coast, Ports and Marine Structures, ICOPMAS 2010, Tehran, Iran.
- 53-Asgarian, B., Hashemi Rezwani, F., " Progressive Collapse in Steel Braced Frames", 5th national conference in civil engineering, Mashhad, Iran, May 2009.(in Persian)
- 54-Asgarian, B., Hashemi Rezwani, F., " Lateral Buckling of Monorail Beams", 5th national conference in civil engineering, Mashhad, Iran, May 2009.(in Persian)
- 55-Asgarian, B., Hashemi Rezwani, F., " Progressive Collapse in Steel Moment Resisting Frames", 6th national conference in civil engineering, Semnan, Iran, May 2010.(in Persian).

RESEARCH INTEREST

- Structural Dynamics, Earthquake Engineering
- Nonlinear Analysis of Structures, Structural Stability
- Damage Detection and Health Monitoring of Structures
- Performance Based Design in Earthquake Engineering
- Seismic Performance of Mud Brick building and their Strengthening

- Buckling Restrained Braced Frames and its application in Seismic resistant design of Building
- Use of Smart Materials in Structural Control Applications, Particularly Shape Memory Alloys
- Seismic Integrity Assessment and Rehabilitation of Building
- Soil Structure Interaction in Jacket Type Offshore Platforms
- Nonlinear Behavior of Jacket Type Offshore Platforms

THESIS SUPERVISED

	Name	Thesis Title	Field	MSc/Phd	Year
1	Kambiz Shirzadi	Seismic Vulnerability Assessment of reinforced Concrete Building	Earthquake Engineering	MSc	2003
2	Ahmad Mohebbinejad	Simplified Method to Assess Dynamic Response of Jacket Type Offshore platforms	Hydraulic Structures Engineering	MSc	2003
3	Alireza Bitaraf	Seismic Response of Reinforced Concrete Building with Panels	Structural Engineering	MSc	2003
4	Naser Amirhesari	Nonlinear Dynamic behavior OF Steel Braced Frames	Earthquake Engineering	MSc	2004
5	Hamed Malekzadeh	Modal Pushover Analysis of Jacket Type Offshore Platforms	Earthquake Engineering	MSc	2004
6	Ali Naghavi	Seismic Vulnerability Assessment of Concrete Frames designed based on 1st edition of Iranian Seismic Code	Earthquake Engineering	MSc	2004
7	Hasan Adabi Firouzjaee	Seismic Vulnerability Assessment of Steel Frames	Structural Engineering	MSc	2004
8	Azadeh Ajamy	Incremental Dynamic Analysis of jacket Type Offshore Platforms	Earthquake Engineering	MSc	2005
9	Mahdi Boroumand	Dynamic Analysis of Offshore Platform Pile Foundations	Earthquake Engineering	MSc	2005
10	Mohammad Mahdi Amiri	Assessment of existing Jacket type Offshore Platforms subjected to lateral loads using ultimate limit state	Marine Structures	MSc	2005
11	Mahdi Afzali	Probabilistic Method for Ultimate Limit State of Jacket type Offshore Platforms	Marine Structures	MSc	2005
12	Rohollah Mohammadi	Effect of Persian Gulf Environment on Dynamic Response of Jacket Type Offshore Platforms	Marine Structures	MSc	2005
13	Atieh Raziei	Dynamic Response of Jacket Type Offshore Platforms located in Persian Gulf subjected to Strong Ground Motions	Earthquake Engineering	MSc	2006
14	Mohammad Lesani	Static Pushover Analysis of Jacket Type Offshore Platforms using Fiber Elements	Hydraulic Structures Engineering	MSc	2006
15	Ali Roshandel	Modal Pushover Analysis of Jacket Type Offshore Platforms considering Soil Pile Structure Interaction	Marine Structures	MSc	2006
16	Venon jalali	Dynamic Response of Steel Braced Frames designed based on different version of Iranian Seismic Code	Structural Engineering	MSc	2006
17	Elham Khalaj	Performance of Steel Frames designed based on different version of Iranian Seismic code	Structural Engineering	MSc	2006
18	Hamed Rahman Shokrgozar	Nonlinear Dynamic behavior OF Buckling Restrained Braced Frames	Structural Engineering	MSc	2006

19	Hosein Agheshlouei	Reliability Based Analysis of Jacket Type Offshore Platforms Subjected to Strong Ground Motions	Marine Structures	MSc	2007
20	Ali Shakeri	Incremental Dynamic Analysis of jacket Type Offshore Platforms considering Soil Pile Structure Interaction	Structural Engineering	MSc	2007
21	Reza Ramezani	Experimental Cyclic Behavior of Precast Concrete Joints	Structural Engineering	MSc	2007
22	Pejman Alanjari	Incremental Dynamic Analysis of Jacket type Offshore Platforms Considering Postbuckling behavior of Vertical Bracing using Corotationl Formulation	Structural Engineering	MSc	2007
23	Moslem Amiri	Modal Strain Energy method for the Damage Detection of old Jacket Type Offshore Platforms	Structural Engineering	MSc	2007
24	Saeed Nazari Moghaddam	Postbuckling of Steel Bracing members using Fuzzy Logic Methods	Structural Engineering	MSc	2007
25	Vahid Shamsaeefar	Experimental Cyclic Behavior of Buckling Restrained Braced Frames	Structural Engineering	MSc	2007
26	Ali Jalaeefar	Incremental Dynamic Analysis of Steel Braced Frames designed based in different version of Iranian Seismic Code	Earthquake Engineering	MSc	2008
27	Arezu Sadrinejad	Incremental Dynamic Analysis of Different type of Steel Frames designed based in Iranian Seismic Code	Earthquake Engineering	MSc	2008
28	Sanaz Fotouhi	Seismic Performance of Different type of Steel Frames designed based in Iranian Seismic Code	Earthquake Engineering	MSc	2008
29	Amin Asareh	Dynamic Response of Jacket Type Offshore Platforms considering Soil pile Structure Interaction	Structural Engineering	MSc	2008
30	Hamid Rahmani Samani	Incremental Dynamic Analysis of Tall Structures	Structural Engineering	MSc	2008
31	Ali Naserifar	Numerical Modeling of Precast Concrete Joints	Structural Engineering	MSc	2008
32	Hamed Latifi	Effect of Local Joint Flexibility on response of Jacket type Offshore Platforms subjected to lateral load	Marine Structures	MSc	2009
33	Mohammad Ali Mojarrad	Dynamic Control of Jacket Type Offshore Platforms	Marine Structures	MSc	2009
34	Masoumeh Soltani	Buckling of Non Prismatic Members Using Power Series expansion	Structural Engineering	MSc	2009
35	Saber Moradi	Seismic Behavior of Braced Frames equipped with Shape Memory Alloys	Structural Engineering	MSc	2009
36	Hamideh Khazaei	Seismic Response of Steel Frames subjected to Near Field Earthquake	Structural Engineering	MSc	2009
37	Fazel Totouchi	Experimental study on Seismic Behavior Adobe Building	Structural Engineering	MSc	2009
38	Azadeh Jafari	Jackup Platform Analysis considering Soil Structure Interaction	Marine Structures	MSc	2010

39	Hamed Amerioun	Retrofit of Old jacket Platforms by Grout Injection method	Marine Structures	MSc	2010
40	Alireza Hadavandkhani	Upheaval Buckling analysis of subsea pipeline using power series expansion	Marine Structures	MSc	2010
41	Saghi SaeedTehrani	Effect of different modeling of foundation on dynamic response of Jackup platforms	Marine Structures	MSc	2010
42	Edris Salehi	Probabilistic Analysis of Buckling Restraint Braced Frames subjected to Earthquake	Earthquake Engineering	MSc	2011
43	Reza Emamjome Zadeh	Response Modification factor of Steel Braced Frames subjected to Near Field Earthquake	Earthquake Engineering	MSc	2011
44	Mohammad Zarrin	Incremental Dynamic Analysis of Jacket Type Platforms subjected to Near Field Earthquake	Marine Structures	MSc	2011
45	Hosein Rafiei Tari	Dynamic Response of Offshore Wind Turbines Subjected to wave loading	Marine Structures	MSc	2011
46	Alireza Jamalian	Response Modification factor of Steel Braced Frames equipped with shape Memory Alloys	Structural Engineering	MSc	2011
47	Farshad Hashemi Rezwani	Progressive Collapse Analysis of Steel Braced Frames	Structural Engineering	MSc	2011
48	Rokhsana Molavi Nojumi	Incremental Dynamic Analysis of High Rise Towers	Structural Engineering	MSc	2011
49	Neda Salari	A new Hybrid Damper equipped with Shape Memory Alloys for Steel Braced Frames	Earthquake Engineering	MSc	2012
50	Hosein Gholami	Progressive Collapse Analysis of Jacket Type Offshore Platforms	Marine Structures	MSc	2012
51	Vahid Mokarram	Numerical Study of Joint Flexibility of Tubular Joints	Structural Engineering	MSc	2012
52	Parviz Kouzehgar	Effect of Joint Flexibility on Fatigue Response of Jacket Type Offshore Platforms	Structural Engineering	MSc	2012
53	Asma Sistani	Probabilistic Analysis of Steel Braced Frames subjected to Near Field Earthquake	Structural Engineering	MSc	2012
54	Maziar Poshtdar	Buckling of cold Form Members Using Power Series expansion	Structural Engineering	MSc	2012
55	Fatemeh Derakhshan	Probabilistic Analysis of tall Buckling Restraint Braced Frames subjected to Earthquake	Structural Engineering	MSc	2012
56	Zeinab Gholinia	Progressive Collapse Analysis of Steel Moment Resisting Frames	Structural Engineering	MSc	2012
57	Masoumeh Babaei	Economic Loss Analysis of Steel Moment Frames Subjected to Earthquake	Earthquake Engineering	MSc	2013
58	Hadi Moghaddamnia	Numerical Analysis of Upheaval Buckling analysis of subsea pipeline	Marine Structures	MSc	2013
59	Mojtaba Mousapour	Analytical Study of Upheaval Buckling Analysis of Subsea Pipeline	Structural Engineering	MSc	2013
60	Vahid Aghaeedoost	Structural Health Monitoring of jacket type Offshore Platforms Using Wavelet Transform	Structural Engineering	MSc	2013
61	Soheil Dadras	Progressive Collapse Analysis of Power Transition Towers	Earthquake Engineering	MSc	2014

62	Moein Moayeri	Performance Evaluation of Steel Moment Resisting frames considering different Uncertainties	Earthquake Engineering	MSc	2014
63	Behnam Ordoubadi	Performance Evaluation of Steel Moment Resisting Frames by consideration of different Damage Indexes	Earthquake Engineering	MSc	2014
64	Mohsen Abyanee	Reliability Analysis of Jacket Type Offshore Platforms Subjected to Earthquake by using Advanced Statistical Indexes	Marine Structures	MSc	2014
65	Maryam Nickkhah	Analysis of Offshore Wind Turbine considering Soil Pile Structure Interaction	Marine Structures	MSc	2014
66	Madjid Amirahmadi	Analytical Modeling of Hybrid Dampers equipped with Shape Memory Alloy and Steel	Structural Engineering	MSc	2014
67	Mohammad Reza Honarvar	Experimental and Numerical Study on Pile Leg Interaction of Jacket Type Offshore Platforms	Structural Engineering (Advisor-Tehran University)	PhD	2008
68	Hamed Rahman Shokrgozar	Experimental and Numerical Study on Structural Health Monitoring of Jacket Type Offshore Platforms	Structural Engineering	PhD	2012
69	Pejman Alanjari	A new Joint Flexibility Model for Tubular Joints in Offshore Platforms	Structural Engineering	PhD	2012
70	Ali Jalaeifar	Experimental and Numerical Study of a new Hybrid Damper Equipped with Shape Memory Alloys	Structural Structures	PhD	2012
71	Masoumeh Soltani	Instability Analysis of Thin Walled Members using Power Series Expansion	Structural Engineering	PhD	2014

RESEARCH PROJECT (Industry Supported Projects)

Project Title	Client
Dynamic Ambient Vibration Test of one 12 story Building and rehabilitation design of building subjected to earthquake	Social Security Organization of Iran
Dynamic Ambient Vibration of one tall Building and its rehabilitation design subjected to earthquake	Ministry of Labour and Social Affairs, Iran
Integrity Check of Engineering documents of Tall Buildings in district 22 of Tehran	Tehran Municipality
Design of Structural health monitoring system for Milad Telecommunication tower	Yademan Sazeh Company
Experimental Study of Structural health monitoring system for Offshore Platforms	Pars Oil& Gas Company
Study of Behavior of Steel Braced Frames Equipped with Shape Memory Alloys	Iranian National Science Foundation
Preparation of Standards for Rapid Assessment of Ports Structures	Research Centre of Ministry of Highways, Iran

EDITORIAL BOARD MEMBER

Journal of Coupled System Mechanics, Techno Press

Journal of Numerical Methods in Civil Engineering, K.N.Toosi University of Technology

JOURNAL REVIEWER

- Sound and Vibrations, Elsevier
- Engineering Structures, Elsevier
- Tall and Special Building, John Wiley
- Coupled System Mechanics, Techno Press
- Earthquake and Structures, Techno Press
- Steel and Composite Structures, Techno Press
- Structural Engineering and Mechanics, Techno Press
- Internal Journal of Earthquake Engineering and Engineering Vibration, Springer
- International Journal of Steel Structures, Springer
- International Journal of Civil Engineering, IUST
- International Journal of Maritime Engineering, IJMT
- Sharif University Journal
- Amirkabir University Journal
- Modarres University Journal

- Numerical Methods in Civil Engineering Journal, K.N.Toosi University of Technology

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